

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P631406

Luminaire Tested: GWS-SA1F-750-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631406
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1F-750-U-T3R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (16) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7555.7 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

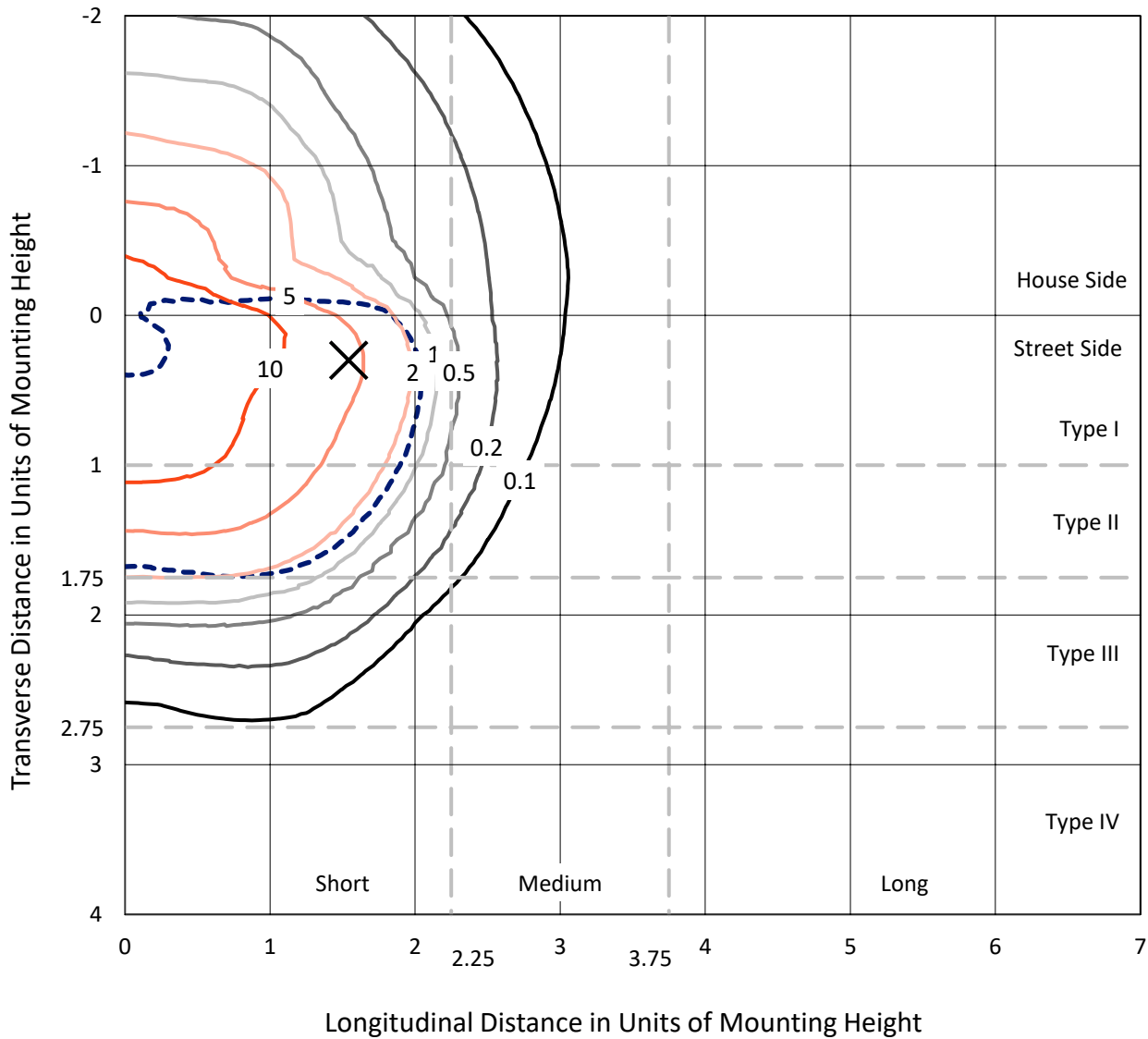
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

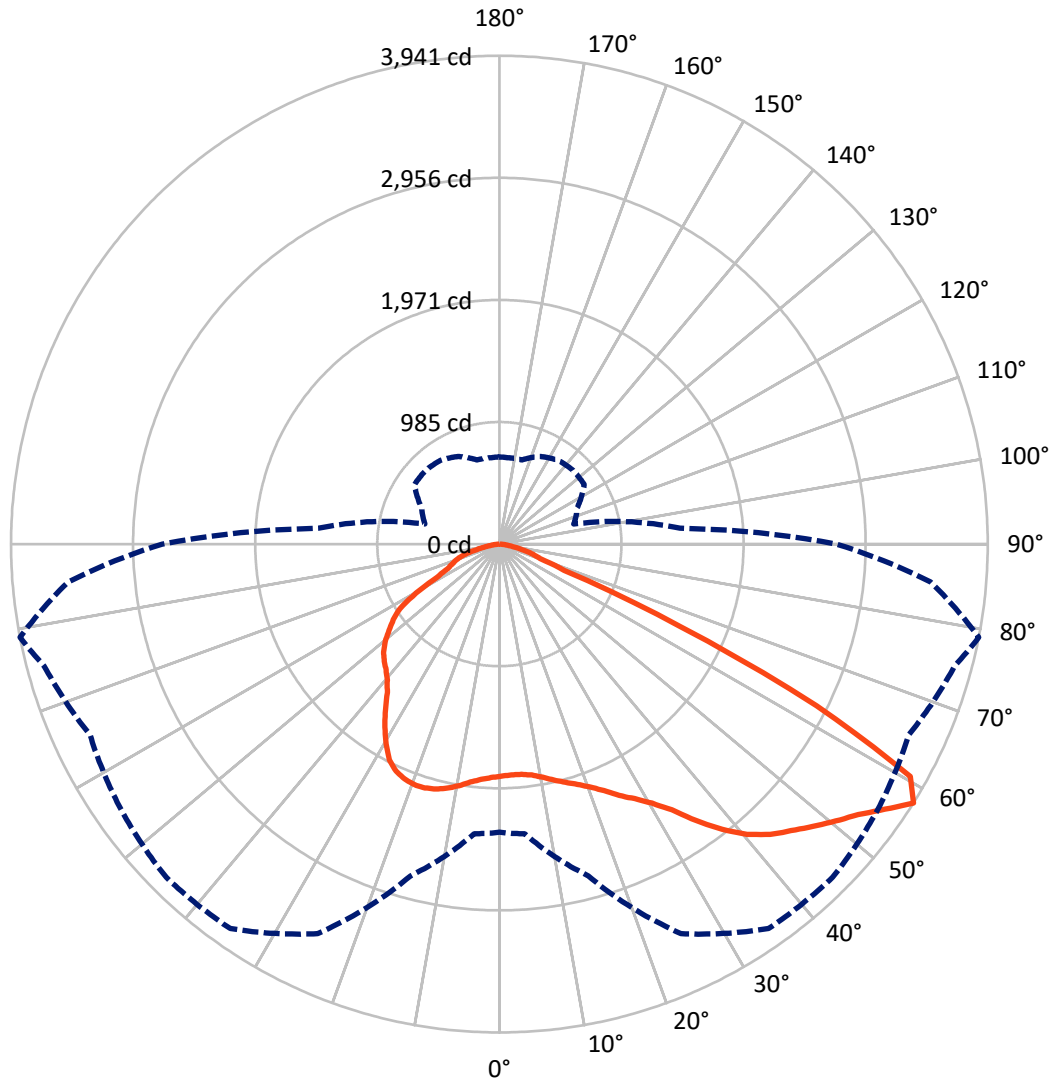
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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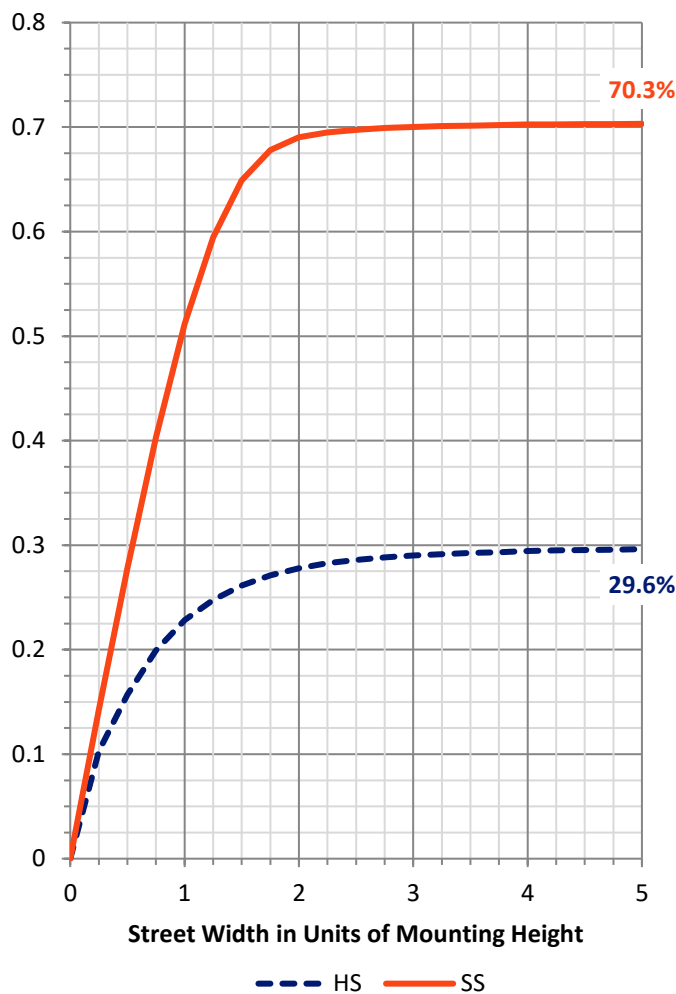
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2246.0	0.0	2246.0
	% Fixture	29.7	0.0	29.7
Street Side	Lumens	5309.7	0.0	5309.7
	% Fixture	70.3	0.0	70.3
Total	Lumens	7555.7	0.0	7555.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.4	2.3
10°-20°	481.9	6.4
20°-30°	816.8	10.8
30°-40°	1250.3	16.5
40°-50°	1667.1	22.1
50°-60°	1925.4	25.5
60°-70°	1000.5	13.2
70°-80°	212.7	2.8
80°-90°	27.5	0.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7555.7	100.0
0°-180°	7555.7	100.0

Coefficient of Utilization



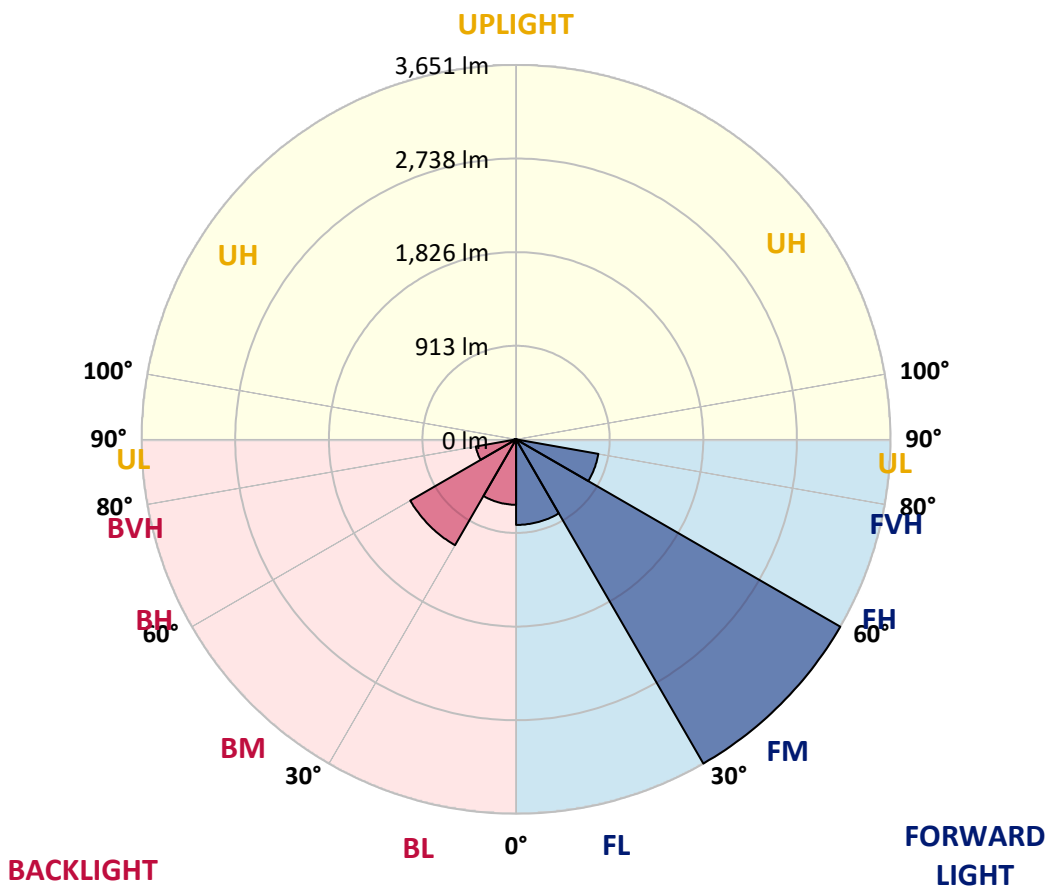
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	834.3	11.0			
FM (30°-60°)	3651.1	48.3			
FH (60°-80°)	814.7	10.8			G1/1800
FVH (80°-90°)	9.6	0.1			G0/10
BL (0°-30°)	637.8	8.4	B2/1000		
BM (30°-60°)	1191.7	15.8	B2/2500		
BH (60°-80°)	398.5	5.3	B1/500		G1/500
BVH (80°-90°)	17.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1872.5	1872.5	1872.5	1872.5	1872.5	1872.5	1872.5	1872.5	1872.5	1872.5	1872.5
2.5°	1787.2	1783.5	1784.8	1789.7	1808.2	1821.8	1836.0	1849.0	1861.4	1865.1	1868.2
5°	1723.6	1716.8	1718.7	1726.7	1748.3	1771.2	1796.5	1827.4	1857.0	1866.9	1879.9
7.5°	1678.5	1677.3	1680.3	1692.7	1715.6	1737.2	1769.9	1813.8	1865.1	1881.7	1904.6
10°	1618.6	1616.1	1628.5	1653.8	1691.5	1726.1	1765.0	1816.9	1888.5	1913.3	1948.5
12.5°	1571.0	1569.8	1582.7	1618.0	1666.1	1721.1	1774.9	1832.9	1920.0	1954.0	1997.3
15°	1598.8	1593.2	1593.9	1618.6	1661.8	1726.7	1799.6	1862.0	1951.6	1994.8	2050.4
17.5°	1679.7	1669.8	1662.4	1666.8	1691.5	1758.8	1837.3	1900.9	1988.0	2038.7	2106.6
20°	1791.5	1786.0	1765.6	1752.0	1757.6	1816.9	1896.6	1955.9	2035.6	2092.4	2165.3
22.5°	1941.7	1928.1	1900.3	1878.7	1862.0	1908.3	1981.8	2033.1	2101.7	2161.0	2237.0
25°	2127.6	2107.8	2064.0	2030.0	1994.2	2041.7	2107.2	2146.2	2192.5	2247.5	2319.7
27.5°	2317.3	2300.6	2251.8	2206.1	2161.6	2191.2	2269.1	2291.3	2286.4	2326.5	2388.3
30°	2519.3	2498.3	2452.0	2402.5	2345.1	2364.2	2434.0	2445.2	2392.6	2426.0	2468.0
32.5°	2732.4	2712.0	2671.9	2614.4	2549.6	2557.0	2576.1	2586.6	2536.6	2555.7	2587.9
35°	2949.3	2930.1	2889.3	2832.5	2784.9	2739.8	2691.6	2733.7	2704.6	2741.7	2739.2
37.5°	3147.6	3128.4	3103.1	3059.2	2977.7	2888.7	2777.5	2829.4	2874.5	2921.5	2913.4
40°	3281.6	3268.6	3274.8	3268.0	3163.0	2986.9	2819.5	2876.4	2999.3	3079.6	3075.3
42.5°	3397.1	3384.2	3420.0	3446.0	3322.4	3077.8	2839.9	2894.3	3079.0	3204.4	3198.2
45°	3448.4	3444.7	3504.0	3586.2	3468.2	3174.1	2892.4	2931.3	3139.5	3300.2	3276.7
47.5°	3387.3	3400.2	3517.0	3656.0	3589.3	3288.4	2999.9	3009.8	3218.6	3403.9	3337.8
50°	3265.6	3294.0	3451.5	3657.8	3677.6	3417.5	3148.8	3124.1	3324.9	3514.5	3370.0
52.5°	3088.3	3117.9	3374.9	3643.6	3728.3	3567.0	3347.1	3311.9	3458.9	3625.1	3375.5
55°	2681.1	2721.3	3199.5	3611.5	3777.7	3702.9	3570.7	3499.1	3631.9	3777.1	3430.5
57.5°	2325.9	2346.9	2772.0	3468.8	3787.6	3803.0	3730.1	3644.9	3803.6	3941.4	3492.3
60°	1706.9	1711.9	2094.3	2870.2	3484.3	3745.0	3717.2	3590.5	3722.1	3809.8	3209.3
62.5°	964.3	965.0	1270.1	1915.7	2602.7	3052.4	3069.7	2957.9	2847.3	2873.3	2233.9
65°	362.0	396.0	580.1	941.5	1500.6	1802.1	1873.7	1899.7	1715.6	1601.3	1197.9
67.5°	242.2	250.2	338.5	484.3	667.8	771.0	862.4	864.9	632.6	564.0	472.0
70°	184.7	192.7	266.3	346.6	338.5	312.6	337.9	328.7	339.8	349.0	358.9
72.5°	137.8	145.8	206.3	244.6	203.2	200.2	226.7	252.1	275.5	285.4	300.9
75°	91.4	97.6	139.0	131.0	112.4	132.8	165.6	190.9	204.5	216.2	228.0
77.5°	58.1	62.4	74.1	59.9	62.4	77.8	96.4	119.2	132.2	143.9	150.1
80°	26.6	25.9	25.3	28.4	35.2	45.7	58.1	71.7	81.5	86.5	90.2
82.5°	10.5	11.7	13.0	15.4	19.2	24.7	32.7	42.0	50.0	51.3	54.4
85°	4.3	4.9	5.6	6.8	8.6	11.1	13.6	19.2	24.1	25.9	27.8
87.5°	0.0	0.0	0.0	0.0	0.6	1.2	1.9	3.1	5.6	6.2	6.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1872.5	1872.5	1872.5	1872.5	1872.5	1872.5	1872.5	1872.5	1872.5	1872.5	1872.5
2.5°	1884.8	1876.8	1890.4	1899.7	1908.3	1899.0	1896.0	1887.9	1886.7	1886.7	1891.0
5°	1902.1	1896.6	1910.8	1916.3	1915.7	1895.3	1883.0	1866.9	1858.9	1858.9	1860.1
7.5°	1933.0	1929.9	1938.0	1929.3	1909.5	1868.2	1827.4	1793.4	1770.5	1758.8	1762.5
10°	1984.3	1980.6	1973.8	1941.7	1884.8	1799.0	1715.6	1653.8	1616.7	1595.7	1596.9
12.5°	2034.3	2028.2	2004.1	1933.0	1816.3	1679.7	1570.4	1501.2	1460.4	1435.7	1430.1
15°	2089.3	2073.3	2021.4	1888.5	1704.4	1533.9	1419.6	1344.9	1301.0	1286.2	1285.6
17.5°	2141.8	2113.4	2019.5	1809.5	1570.4	1381.3	1266.4	1220.1	1212.7	1219.5	1221.3
20°	2195.0	2149.2	1999.1	1700.1	1411.0	1229.4	1170.1	1189.2	1217.0	1235.6	1239.9
22.5°	2249.9	2178.9	1952.8	1559.3	1243.0	1126.8	1151.5	1193.5	1228.1	1252.8	1255.3
25°	2311.7	2206.7	1883.6	1386.9	1108.3	1098.4	1147.2	1191.7	1228.8	1257.2	1262.1
27.5°	2346.9	2207.3	1786.6	1209.6	1046.5	1087.3	1136.7	1178.7	1215.8	1246.7	1252.2
30°	2381.5	2190.6	1632.8	1065.7	1028.6	1074.3	1118.8	1157.7	1192.9	1223.2	1230.0
32.5°	2430.3	2175.2	1455.5	982.9	1018.1	1062.0	1098.4	1133.0	1160.2	1173.8	1177.5
35°	2490.9	2155.4	1267.1	947.0	1011.3	1052.1	1084.2	1102.7	1067.5	1060.1	1068.1
37.5°	2575.5	2136.9	1079.3	931.6	1007.0	1048.4	1076.8	1029.2	986.0	968.7	974.8
40°	2666.9	2126.4	952.0	919.2	1008.8	1052.1	1045.9	975.5	913.1	876.6	875.4
42.5°	2744.8	2110.3	870.4	911.2	1013.8	1066.3	1003.9	927.9	835.2	813.6	814.2
45°	2797.3	2069.5	827.2	902.6	1018.1	1069.4	984.1	862.4	796.3	782.7	782.1
47.5°	2818.9	1995.4	799.4	889.0	1017.5	1044.0	944.0	835.2	769.1	765.4	767.9
50°	2804.7	1873.7	771.0	862.4	1002.6	1017.5	897.6	811.1	750.6	771.0	785.8
52.5°	2752.2	1716.2	737.0	826.0	976.1	987.2	874.2	796.3	737.0	764.2	775.9
55°	2738.6	1588.3	693.8	778.4	936.5	933.5	849.4	788.9	727.7	717.2	719.1
57.5°	2720.7	1463.5	622.1	693.1	836.5	841.4	826.0	780.3	703.6	700.6	703.6
60°	2363.6	1121.9	554.8	598.0	687.0	713.5	799.4	764.2	664.7	651.8	651.1
62.5°	1543.8	679.6	493.6	521.4	559.7	590.6	729.0	717.9	622.1	614.1	619.6
65°	830.3	484.3	449.1	465.8	486.8	510.3	604.2	639.4	562.2	533.8	534.4
67.5°	424.4	412.1	415.8	427.5	443.6	455.3	487.4	518.3	479.4	455.3	454.7
70°	363.3	373.1	378.7	385.5	396.0	394.1	397.2	402.8	399.7	388.0	387.3
72.5°	309.5	324.9	326.2	327.4	331.1	322.5	316.9	307.7	308.3	310.1	310.7
75°	235.4	250.2	253.9	252.1	255.8	244.6	237.2	228.0	216.8	215.0	216.2
77.5°	153.2	164.9	170.5	169.3	171.1	162.5	158.8	148.9	135.9	131.0	131.0
80°	92.7	99.5	103.8	105.0	106.9	100.7	94.5	85.9	80.3	74.8	74.8
82.5°	56.2	60.5	63.6	63.6	65.5	58.7	53.7	47.6	45.1	40.2	40.2
85°	28.4	31.5	32.7	32.1	30.9	25.3	23.5	20.4	19.2	16.7	16.7
87.5°	6.8	8.6	8.6	6.2	6.2	3.1	1.9	0.6	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)